

Notice of Allowability	Application No.	Applicant(s)	
	10/505,564	SANDSTROM, TORBJORN	
	Examiner	Art Unit	
	D. Rutledge	2851	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the Amendment filed on 07 December 2006.
2. ☒ The allowed claim(s) is/are 1-10, 12-26, 30-36 and 40-59.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| <ol style="list-style-type: none"> 1. <input type="checkbox"/> Notice of References Cited (PTO-892) 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | <ol style="list-style-type: none"> 5. <input type="checkbox"/> Notice of Informal Patent Application 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. 7. <input type="checkbox"/> Examiner's Amendment/Comment 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance 9. <input type="checkbox"/> Other _____. |
|---|--|

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Ernest J. Beffel, Jr. (R.N. 43,489) on 27 December 2006.

The application has been amended as follows:

In Claim 1, line 10, change "related" to --- relayed ----

Allowable Subject Matter

2. Claims 1 – 10, 12 – 26, 30 – 36 and 40 – 59 are allowed.
3. The following is an examiner's statement of reasons for allowance: the prior art does not disclose:

A) an apparatus for patterning a workpiece covered at least partly by a layer sensitive to electromagnetic radiation comprising a source, an SLM, a synchronizer, an image – deflecting element arranged as claimed and the modulation creating coherent sub-images on the workpiece and several sub-images are non-coherently superposed to create a final image

B) a method for patterning a workpiece arranged at an image plane and covered at least partly with a layer sensitive to electromagnetic radiation and comprising the actions or steps of : emitting electromagnetic radiation onto an object plane, receiving and modulating the electromagnetic radiation at the object plane in accord with a pattern from an SLM, relaying the modulated electromagnetic radiation toward the workpiece; deflecting a relayed pattern onto the workpiece; synchronizing the motion of the workpiece relative to the relayed pattern, all arranged as claimed and imaging successive pattern onto the workpiece adjacent each other, wherein the successive patterns are at least partially overlapping on the workpiece, and the successive patterns create coherent sub-images on the workpiece and several sub-images are non-coherently superposed to create a final image

C) a method to form an image comprising the actions or steps of: providing a laser source, scanning the workpiece, modulating at least one beam during scanning according to an input pattern data file, where the modulation of the creates a sub-image on the workpiece and several sub-image are non-coherently superposed to create a final image

D) a method for forming an image onto a workpiece comprising the actions or steps of: providing an electromagnetic radiation source, scanning at least one beam from the source over a portion of a spatial light modulator, modulating the at least one beam according to an input pattern data file, where the modulation creates sub-images on the workpiece and several sub-images are non-coherently superposed to create a final image

E) an apparatus for forming a pattern on a radiation sensitive material comprising: a source to form a radiation beam, a scanning element to scan at least one beam from the radiation source over the radiation sensitive material, a modulator to modulate the at least one beam during scanning according to an input pattern data file, where the modulation of the beam creates a sub-image on the workpiece and several sub-images are non-coherently superposed to create a final image

F) an apparatus for forming a pattern on a radiation sensitive material comprising: a source to form a radiation beam, a scanning element to scan at least one beam from the radiation source over a spatial light modulator, a modulator to modulate the at least one beam according to an input pattern data file, where the modulation of the beam creates sub-images on the workpiece and several sub-images are non-coherently superposed to create a final image

G) a method for patterning a workpiece arranged at an image plane and covered at least partly with a layer sensitive to electromagnetic radiation, comprising the actions or steps of: emitting electromagnetic radiation onto an object plane, receiving and modulating the electromagnetic radiation at the object plane in accordance with a pattern by a modulator comprising a plurality of modulating elements, relaying the electromagnetic radiation toward the workpiece, deflecting a relayed pattern from the modulator onto the workpiece, synchronizing the motion of the workpiece relative to a relayed pattern from the modulator onto the workpiece and a loading of the input pattern description, wherein the modulation creates coherent a sub-images on the workpiece and several sub-images are non-coherently superposed to create a final image


Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Response Data

Any inquiry concerning this communication or earlier communications from the examiner should be directed to D. Rutledge whose telephone number is (571) 272-2127. The examiner can normally be reached on Mon - Thurs, 6:00 AM - 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diane Lee can be reached on (571) 272-2399. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.


D. Rutledge
Primary Examiner
Art Unit 2851